

METHOD AND APPARATUS FOR DETECTION  
OF FLUORESCENTLY LABELED MATERIALS

ABSTRACT OF THE DISCLOSURE

5        Fluorescently marked targets bind to a substrate 230 synthesized with polymer sequences at known locations. The targets are detected by exposing selected regions of the substrate 230 to light from a light source 100 and detecting the photons from the light fluoresced therefrom, and repeating  
10      the steps of exposure and detection until the substrate 230 is completely examined. The resulting data can be used to determine binding affinity of the targets to specific polymer sequences.